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In the Claims:

1-12 (cancelled)

13. (new) A system comprising: implementing a Network Application Infrastructure that supports and facilitates the development, deployment and management of device networks and device network applications by having a processing platform that has and runs an Application Services module, a Management Services module, a Database Services module, a Smart Network Services module, with said Application Service comprising the main support for platform applications and the entry point of applications into said platform and comprises the following components: a) Deployment Services which provide tools for remote installation, deinstallation, configuration, deployment and updating of an application; b) Integration Services which construct, monitor and provide tools for the configuration of communication channels among applications; and c) Gateway Interface Services which provides support for an applications" presentation layers, in which said Database Services implements all functionality required for efficient data storage, access and manipulation and comprises the following components: a) The Database which is a database that stores all data related to platform operation; b) Query and Data Manipulation Services which are tools to execute direct data queries and modifications to the Database; c) Abstraction Support which allows the generation of abstract data objects derived from a logical combination of simpler data objects; and d) Clustering, Redundancy and Backup Services which creates an extra layer of data protection to guarantee data integrity and availability in case of database engine failure and in which said Management Service module implements the platform's core functionality and comprises the following components: a) Coordination and Transactional Services which functions as an arbiter in the interaction of any two or more platform components, transaction support, synchronizing between concurrent platform processes, such as platform management

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service, applications, or development tools and handling platform events, such as device network events, application events, user events, and database events;

- b) Entity Management Services which controls all aspects of platform entities which are a logical abstractions within the platform, including user management, device and device group management and resource ownership management;
- c) Resource Control Repository which contains detailed information about every resource in the platform infrastructure, including whether it is being used, how it is being used and what process or application is using it;
- d) Application Management Services which controls application activation and deactivation, and handles all application upgrades and it controls what system resources are made available to each application;
- e) Logging Management Services which register all events and transactions occurring in any layer, and implements a semantic data filter generator that permits the creation of a comprehensive collection of data filters which can be used to produce reports or interfaces to other systems;
- f) Data Management Services which is comprised of data transformation services and data integration services; and
- g) Customer Management Services which implements services that operate as interfaces between platform's internal data structures and other systems, in which said Application Service comprises the main support for platform applications and the entry point of applications into said platform.

14. (new) A system as in Claim 13 further comprising including all inter-device communication and messaging functionality and comprises the following components:
- a) Basic Network Services which implements the fundamental communication processes of platform; b) Global Addressing which constitutes a method of source routing that

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implements device-to-device communications across hybrid device network based on packet communications; c) Protocol Morphing which is a method of emulation of basic network services emulating all basic network services that are not implemented by the underlying network technology; and d) Device Functionality Emulation Services which provides support services to emulate the desired device functionality.